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AMENDMENT TO THE CLAIMS:

- 1. (Currently Amended) A method for manufacturing a polycrystalline semiconductor layer, comprising the step of laser annealing an amorphous semiconductor layer in a low degree vacuum atmosphere, the laser annealing is performed under a low degree vacuum atmosphere with a pressure equal to or higher than about 1.3 Pa.
- 2. (Currently Amended) The method defined in Claim 1, wherein said annealing is performed under a pressure between equal to or lower than about 1.3 x 10³ Pa and about 1.3 Pa.
- 3. (Original) The method defined in Claim 2, wherein said annealing is performed in an annealing atmosphere containing an inert gas.
- 4. (Currently Amended) The method defined in Claim 3, wherein said inert gas includes a gas selected from the group consisting of nitrogen, hydrogen, argon, and neon.
 - 5-6. (Canceled)
- 7. (Currently Amended) A method of manufacturing a thin-film transistor, comprising the steps of:

forming an amorphous silicon layer on a substrate;

disposing said substrate inside an annealing chamber;

creating a low degree vacuum atmosphere within said annealing chamber, the low degree vacuum atmosphere has a pressure equal to or higher than about 1.3 Pa; and

irradiating focused laser light onto the amorphous silicon layer overlying said substrate through a chamber window built in said annealing chamber to anneal and poly-crystallize said amorphous silicon, whereby a polycrystalline silicon layer is formed as an active layer of said thin-film transistor.

- 8. (Currently Amended) The method defined in Claim 7, wherein said annealing is performed under a pressure between equal to or lower than about 1.3 x 10³ Pa-and about 1.3 Pa.
- 9. (Original) The method defined in Claim 7, wherein said annealing is performed in an annealing atmosphere containing an inert gas.

- 10. (Currently Amended) The method defined in Claim 9, wherein said inert gas includes a gas selected from the group consisting of nitrogen, hydrogen, argon, and neon.
- 11. (Original) A laser annealing apparatus, wherein focused laser light is irradiated through a chamber window onto an object to be processed placed inside a annealing chamber, comprising: an introducer for introducing an inert gas into said annealing chamber during annealing; a pump for reducing the pressure in said annealing chamber; and a pressure controller for controlling the pressure in said annealing chamber to maintain a pressure between about 1.3 x 10³ Pa and about 1.3 Pa.
- 12. (New) The method defined in Claim 1, wherein said annealing is performed in an annealing atmosphere containing a hydrogen gas.
- 13. (New) The method defined in Claim 7, wherein said annealing is performed in an annealing atmosphere containing a hydrogen gas.